

An internal Mayflower Node is installed within a lantern to control the on/off function and the light level of the lamp. It has been designed to fit within the lantern body for situations where it is not practical or aesthetically pleasing to fit an external Mayflower Node (e.g. bollards, signs, heritage lanterns).

In conjunction with the Mayflower Antenna, the Mayflower Node receives lamp control commands from the Mayflower Sub Master. The Mayflower Node is able to monitor, record and transmit measurement data, as well as alerting the user to potential fault issues.



Power Supply

Voltage: 230V 50Hz
Power consumption: <1W
Supply voltage tolerance: +10% to -6%
Voltage surge protection: 2KV
Over current protection required: 10A BS88 or equivalent

Enclosure

IP42
UV stable
Flame retardant
Compatible with Mayflower S6000 socket

Measurement

Energy meter microchip
Accuracy: +/- 1%
Voltage span: 200V to 260V
Current span: 50mA to 4A
Wattage span: 1W to 1000W

Switching

Energy efficient latching relay
Relay rating: 16A, 250V high in-rush

Microcontroller

Flash programmable CPU
Brown out protection
Watch-dog timer protection
Run time clock plus 48hr supply protection

Node Communication

Zigbee IEEE 802.15.4
Licence free
Multi-channel
Dynamically configured mesh networking
Self-healing capability
Range: 200m

Ballast Communication Protocols

DALI (Digital Addressable Lighting Interface)
0 to 10V (analogue)

Radio Transceiver

Frequency: 2405-2480MHz
Modulation: O-QPSK
Output power: <10 dBm
Temperature: -20°C to +65°C
Approvals: ETSI EN300-328;
EMC as per EN-301-489-1/17; EN60950

Patent Number

GB23272160

Product Code

INTII/DALI
INTII/0-10V
INTII/STND

Antenna

IP65
11mm fixing hole

Elexon Charge Code

9800010003100

